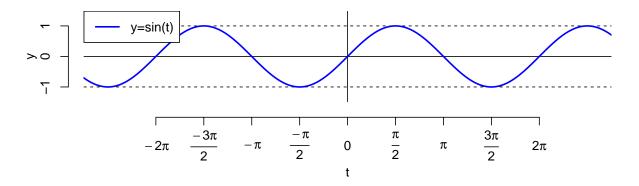
Wave Cheat Sheet

Parent Functions

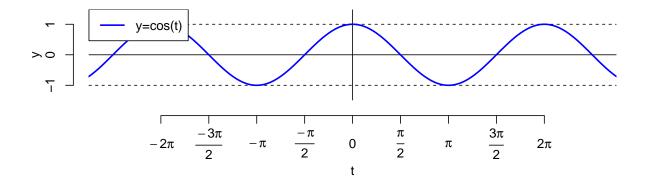
The sine function $y = \sin(t)$

• Hits midline with positive slope at t=0



The cosine function $y = \cos(t)$

• Has a maximum at t = 0



Temporal Sinusoidal Oscillation

$$y = A\sin(Bt) + D$$
 or $y = A\cos(Bt) + D$

- Amplitude = |A|
- Amplitude = |A|
 Angular frequency = B, and B > 0
 Period = P = ^{2π}/_B
 Frequency = f = ^B/_{2π}
 Offset = D, so midline is at y = D.